FIG.1 PRIOR ART

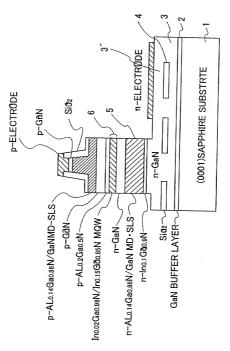


FIG.2 PRIOR ART

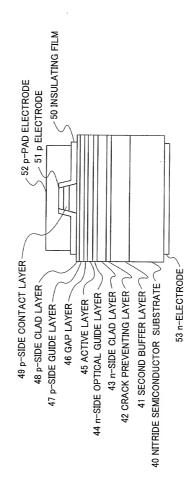


FIG.3A PRIOR ART

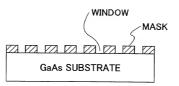


FIG.3B PRIOR ART

GaN BUFFER LAYER

GaAs

FIG.3C PRIOR ART

EPITAXIAL LAYER
GaN
723 123 123 123 123 123 123 123

FIG.3D PRIOR ART

GaN

FIG.4A PRIOR ART

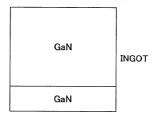


FIG.4B PRIOR ART

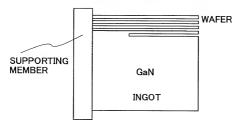


FIG.4C PRIOR ART



FIG.5

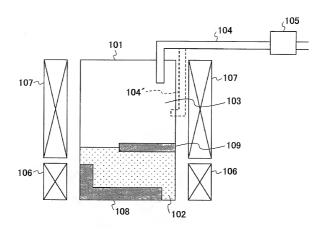


FIG.6

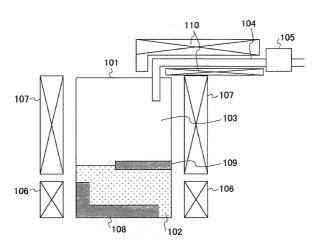


FIG.7

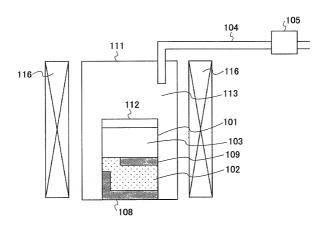


FIG.8

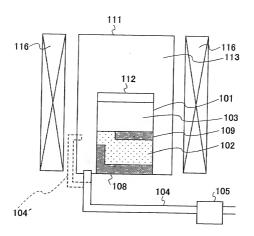


FIG.9

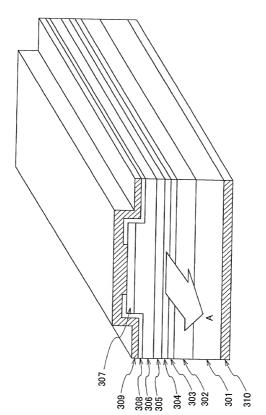
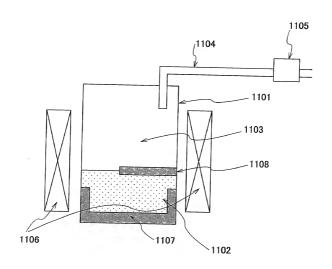


FIG.10



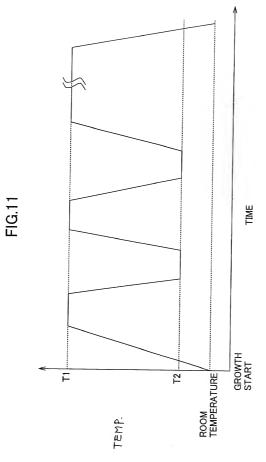


FIG.12

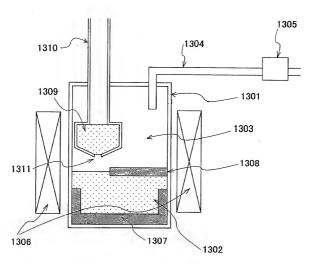


FIG.13

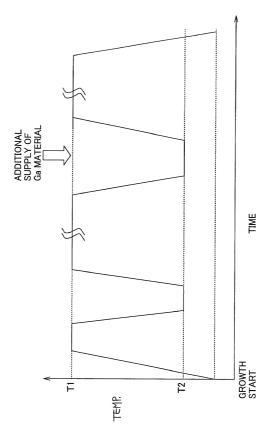


FIG.14

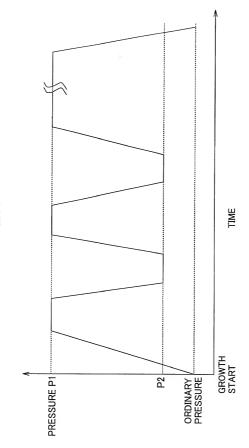


FIG.15

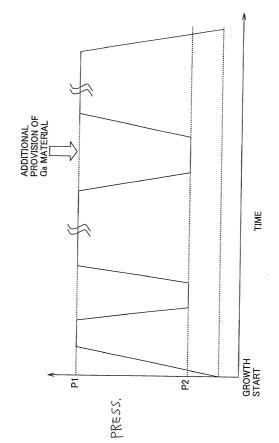


FIG.16

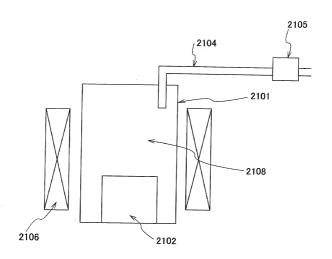


FIG.17

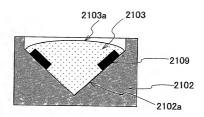


FIG.18

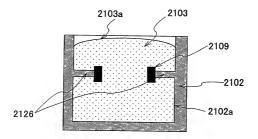


FIG.19

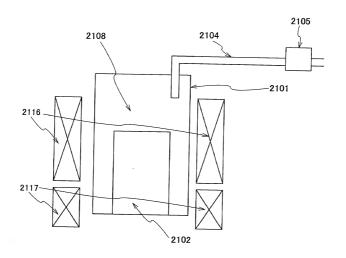


FIG.20A

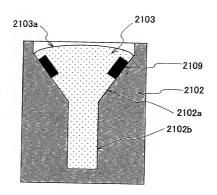


FIG.20B

